

PHOTO INTERPRETATION NOTE

FORWARD MAINTENANCE FACILITIES FOR Y-CLASS SSBN IN SOVIET NORTHERN AND PACIFIC FLEETS USSR

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Declass Review by NIMA/DOD

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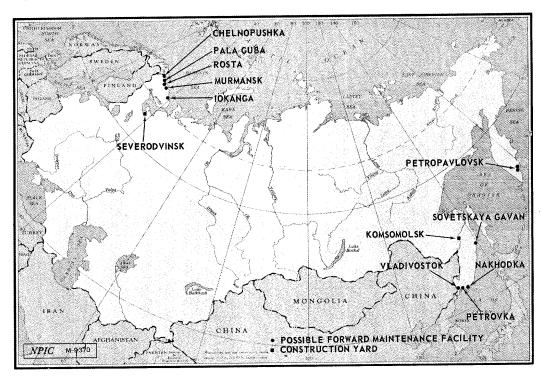
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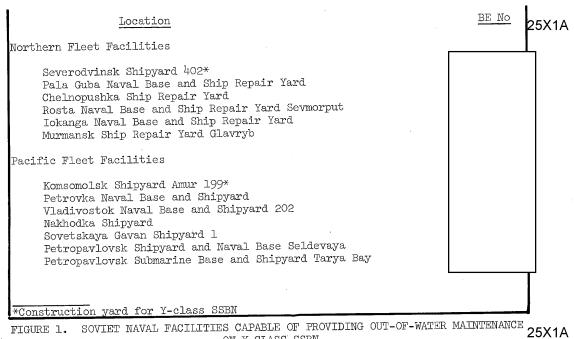
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FORWARD MAINTENANCE FACILITIES FOR Y-CLASS SSBN IN SOVIET NORTHERN AND PACIFIC FLEETS

Analysis of photography of Soviet naval facilities in the two fleet areas where the Y-class nuclear-powered ballistic missile submarine (SSBN) is deployed indicates that at least ten facilities in addition to two construction yards are capable of providing out-of-water maintenance for units of this class (Figure 1).





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ON Y-CLASS SSBN

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The intent of this report is to focus attention on floating drydocks and graving docks that are estimated to have the capability of providing such service.

Wetdocks and associated repairways at Severodvinsk Shipyard 402 in the Northern Fleet and Petrovka Shipyard in the Pacific Fleet could furnish outof-water service to Y-class SSBN. In addition, Komsomolsk Shipyard Amur 199 has the large transporter dock routinely used for launching the Y-class SSBN and is fully capable of servicing an operational unit. A second large transporter dock is currently under construction at Komsomolsk.

The first sighting of a Y-class SSBN out of the water at a forward yard was in late when a unit was in the large floating drydock at made in late when a unit was in the large floating drydock at Chelnopushka Ship Repair Yard in the Northern Fleet area. Previously, Y-class units had only been observed out of the water at the construction yard at Severodvinsk Shipyard 402.

All available KEYHOLE photography of floating drydocks and graving docks in the Northern and Pacific Fleet areas was examined and the docks measured in order to determine those capable of handling Y-class units. Such facilities were found at at least four forward yards in the Northern Fleet area and at five forward yards in the Pacific Fleet area. An additional yard, in the Northern Fleet area at Murmansk, has two floating drydocks which may be capable of accommodating the Y-class unit, but side wall heights, a critical factor in estimating capacity, could not be determined from available photography.

Floating Drydocks

A number of factors must be considered in determining the capacity of a floating drydock to service a Y-class SSBN. Critical factors which can be determined from overhead photography are floor length, internal width, and wall height. A fourth determinant, lifting capability, cannot be accurately determined from aerial photography.

Table 1. Dimensions of Floating Drydocks Capable of Handling Y-Class SSBN

Location	Y-Class Capable
Northern Fleet Severodvinsk	Yes Yes
Pala Guba	Harginal Yes
Chelnopushka Murmansk	Yes Undetermined Undetermined
Pacific Fleet Vladivostok Wharf 8	Yes
Wharf 15 Nakhodka	Marginal Yes Yes
Sovetskaya Gavan	Yes ·
Petropavlovsk (Seldevaya)	Yes
Petropavlovsk (Tarya Bay)	Marginal Marginal
*Side wall height could not be determined due to	occupancy. 25X1A

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Location	25X1E
Northern Fleet Rosta Iokanga	
Pacific Fleet Vladivostok Dock No 1 Dock No 2 Dock No 3	

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